

CLAIMS:

1. A brake assembly comprising:
  - a shaft;
  - at least one cam mounted on said shaft;
  - at least one pressure glide corresponding to each cam and arranged for contact therewith;
  - an inflatable bladder, which upon inflation applies pressure to said pressure glide, forcing it into engagement with a corresponding cam;
  - wherein said pressure glide is pushed backwardly by said corresponding cam as it turns, causing said cam and said shaft to be slowed rotationally.
2. The assembly according to claim 1, further comprising at least one first compression spring between said bladder section and said pressure glide for transmitting force between said bladder section and said pressure glide.
3. The assembly according to claim 2, further comprising at least one second compression spring mounted within said first compression springs for maintaining pressure against said pressure glide to contact a corresponding cam.
4. The assembly according to claim 1, wherein said camshaft is connected to a driveline of a motor vehicle.
5. The assembly according to claim 4, wherein the vehicle is a truck.
6. The assembly according to claim 4, wherein said bladder is inflated when an operator of said vehicle applies pressure to a brake pedal, causing

said bladder to expand, said camshaft to slow rotationally and, accordingly, to slow said vehicle.

7. The assembly according to claim 1, further comprising glide keepers for supporting said pressure glides.

8. The assembly according to claim 1, wherein said shaft carries a plurality of cams with at least two pressure glides for each cam, arranged on opposite sides of said shaft.

9. The assembly according to claim 4, wherein said bladder sections are inflated using compressed air available on said vehicle.

10. The assembly according to claim 1, wherein said brake assembly is a primary brake on a vehicle.

11. The brake assembly according to claim 1, wherein said brake assembly is a secondary brake arrangement on a vehicle.

12. A method of braking a vehicle, comprising:  
providing at least one cam on a shaft arranged in the driveline of said vehicle;  
inflating a bladder using compressed air;  
forcing a pressure glide into engagement with said cam by means of said inflating bladder;  
wherein movement of said cam against said pressure glide acts to slow said cam, said shaft and said vehicle.

13. The method according to claim 12, further comprising:  
providing compression springs between said bladder and said pressure  
glide.